



Adaptation to changing water resource availability in Northern India with respect to Himalayan Glacier retreat and changing monsoons using participatory approaches

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Abstract:

Changes in rainfall patterns and temperatures are likely to affect water resources in India. Also, changes in the extreme events will have direct implications on life and property. Adapting to the adverse effects of climate change becomes critical to avoid huge material and immaterial damages. This paper discusses the use of a multi-level and participatory approach to develop adaptation options to deal with climate related risks in a manner that contributes to stakeholder engagement, understanding of the risks, identification of the adaptation responses as well as its prioritization for risk reduction. It highlights the importance of involving stakeholders from multiple levels as each level corresponds with different priorities in adaptation options.

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Resource Description

Communication:

resource focus on research or methods on how to communicate or frame issues on climate change; surveys of attitudes, knowledge, beliefs about climate change

A focus of content

Communication Audience:

audience to whom the resource is directed

Policymaker, Public, Researcher

Early Warning System:

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure :

weather or climate related pathway by which climate change affects health

Climate Change and Human Health Literature Portal

Extreme Weather Event, Food/Water Security, Food/Water Security, Human Conflict/Displacement, Precipitation, Temperature

Extreme Weather Event: Drought, Flooding, Hurricanes/Cyclones

Food/Water Security: Agricultural Productivity, Livestock Productivity

Temperature: Fluctuations

Geographic Feature: 

resource focuses on specific type of geography

Freshwater, Mountain, Rural, Valley

Geographic Location: 

resource focuses on specific location

Non-United States

Non-United States: Asia

Asian Region/Country: India

Health Impact: 

specification of health effect or disease related to climate change exposure

Infectious Disease, Respiratory Effect

Infectious Disease: Vectorborne Disease

Vectorborne Disease: General Vectorborne

Intervention: 

strategy to prepare for or reduce the impact of climate change on health

A focus of content

Mitigation/Adaptation: 

mitigation or adaptation strategy is a focus of resource

Adaptation

Population of Concern: A focus of content

Population of Concern: 

populations at particular risk or vulnerability to climate change impacts

Low Socioeconomic Status, Workers

Resource Type: 

format or standard characteristic of resource

Policy/Opinion, Research Article, Research Article

Resilience: 



capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

Timescale:

time period studied

Time Scale Unspecified

Vulnerability/Impact Assessment:

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content